



# Section C:2

## ***River Corridor***

### **PROJECT MANAGERS**

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## **SUMMARY**

The River Corridor Project consists of the following projects: 300 Area Liquid Effluent Facility (LEF) WBS 1.2.3.2, Project Baseline Summary (PBS) WM05; B-Plant, WBS 1.4.1, PBS TP01; 300 Area/Special Nuclear Materials, WBS 1.4.4, PBS TP04; Transition Project Management, WBS 1.4.6, PBS TP12; Accelerated Deactivation, WBS 1.4.8, PBS TP10; 324/327 Facility Transition, WBS 1.4.10, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11, PBS TP14.

PBS WM05 is divided between WBS 1.2.3.1, Liquid Effluents (200 LEF) and WBS 1.2.3.2, 310 TEDF/340 Facility (300 LEF). The 310 TEDF/340 Facility work scope is now included in the River Corridor Project, whereas the Liquid Effluents (200 LEF) work scope has remained in Waste Management. For the purpose of performance analysis, PBS WM05 is reported in its entirety in the Waste Management Project, which has the majority of the work scope and funding incorporated in their baseline.

NOTE: Unless otherwise noted, all information is as of September 30, 2000.

### **Top 5 Accomplishments for FY 2000**

All 184 T-hoppers containing approximately 667 metric tons of low-enriched uranium in the form of uranium trioxide powder were shipped to the DOE Portsmouth site in Ohio by September 28, 2000, an accelerated target date (Completion and Removal).

Key 327 Building cleanup accelerated from the out years was accomplished during FY 2000. These activities included packaging and shipping 32.5 m<sup>3</sup> of bulk waste (exceeding the fiscal-year target), packaging and shipping 103 legacy waste buckets to compliant storage (28 more than planned); and packaging and shipping to the 200 Areas Waste Complex 90 percent of the 297 sample cans of radioactive materials from dry storage. All eight fuel pins were packaged and shipped; cleanout of H Cell was completed; and all accountable fissile material in hot cells was packaged and shipped (Momentum).

324 B Cell Cleanout - Milestone RL TRP-99-936, "2A Rack Removal and Size Reduction..." was completed three weeks early, and RL Milestone TRP-99-907, "1A 3-82B Cask Shipments..." was completed seven days early, with all 17 grout containers scheduled for this year shipped (Momentum).

On June 30, 2000 the 300 Area Accelerated Closure Project Plan was submitted to RL. The submittal completed the deliverable to develop an innovative and integrated plan, schedule, and cost estimate for the accelerated closure of a significant portion of the 300 Area (Momentum).

Over 57 million gallons of wastewater were treated at the 300 Area Treated Effluent Disposal Facility (TEDF) (Progress).

## **Additional FY 2000 Accomplishments**

### **Momentum**

River Corridor Project and COGEMA Engineering worked together on the design and procurement of a robotic crawler to be used for the cleanup of the 324 Building. Hot-cell technicians will use the crawler, which has a light duty arm and vacuum system, to collect material from the sump, trench and floor of B Cell. There were no existing tools able to complete the task. The versatility for multiple tool deployment allows access to hard-to-reach areas within the cell.

### **Progress**

The RCP has worked an estimated 1,308,000 safe hours since the last lost time injury.

The Fuel Supply Shutdown Waste Acid Treatment System (WATS) Resource Conservation and Recovery Act of 1976 (RCRA) Closure Project was selected as the Project Management Institute's Regional Project of the Year award winner at the Awards Banquet on March 15, 2000.

Two steel waste disposal boxes containing mixed waste were shipped to the Central Waste Complex (CWC) in support of Tri-Party Agreement Interim Milestone M-89-02, 2000, "Complete removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment," due November 30. The 324 staff successfully shipped 80 of 88 backlog low-level waste drums, and completed lead shield plug size reduction and packaging.

A biological clean-up procedure for 200 Area Accelerated Deactivation Project was cited as a major strength by ISMS assessors, and as a positive observation per RL surveillance. Additionally, installation of the second backflow preventor at 231-Z Facility was completed one month ahead of schedule.

The 300 Area Liquid Effluent Facility received and processed eleven 33-gallon drums of sodium hydroxide, which resulted in avoidance of a \$31.6K disposal cost. Additionally, eight 55-gallon drums of sulfuric acid were unloaded into the 310 Facility sulfuric acid storage tank. This acid was excess product from the 200 Area Effluent Treatment Facility. Use of the excess acid will eliminate the need for disposal of the product as hazardous waste and result in a cost avoidance of \$112.7K.

### **Completion and Removal**

B Plant closeout activities were completed 10 days ahead of the Washington Department Of Health (WDOH) due date of July 28, 2000. Bechtel Hanford, Inc. assumed full responsibility for surveillance and maintenance of B Plant and the associated ventilation system on August 9.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that four of five milestones (80 percent) were completed on or ahead of schedule and one milestone is overdue. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

## **ACCOMPLISHMENTS THIS REPORTING PERIOD**

- For the month of September the 327 Building personnel shipped an additional 12 lead-lined drums and 9 concrete-lined drums to the Central Waste Complex. One box of bulk waste was shipped to the burial grounds, 63 legacy waste buckets and 240 grams of Dry Storage/Metallurgical Mount fissile material was shipped to compliant storage, and the cleanout of H Cell was completed.
- The Uranium Disposition Project (TP-14) completed shipment of 36 T-hoppers to the DOE Portsmouth site in Ohio this reporting period. Additionally, 200 Area personnel recovered approximately \$100K worth of scaffolding materials from PUREX for reuse.
- The 300 Area Treated Effluent Disposal Facility treated 5.2M gallons of wastewater for the month of September. In addition, the Process Sewer cleanout and the precipitation testing process were completed.
- The 324 Building personnel loaded out and shipped the first two steel waste disposal boxes, replaced HEPA filters, replaced oil in 23 Hot Cell windows, and completed size reduction of rectangular grout container-3. In addition, grout container-120 was dose profiled and transferred to A Cell.

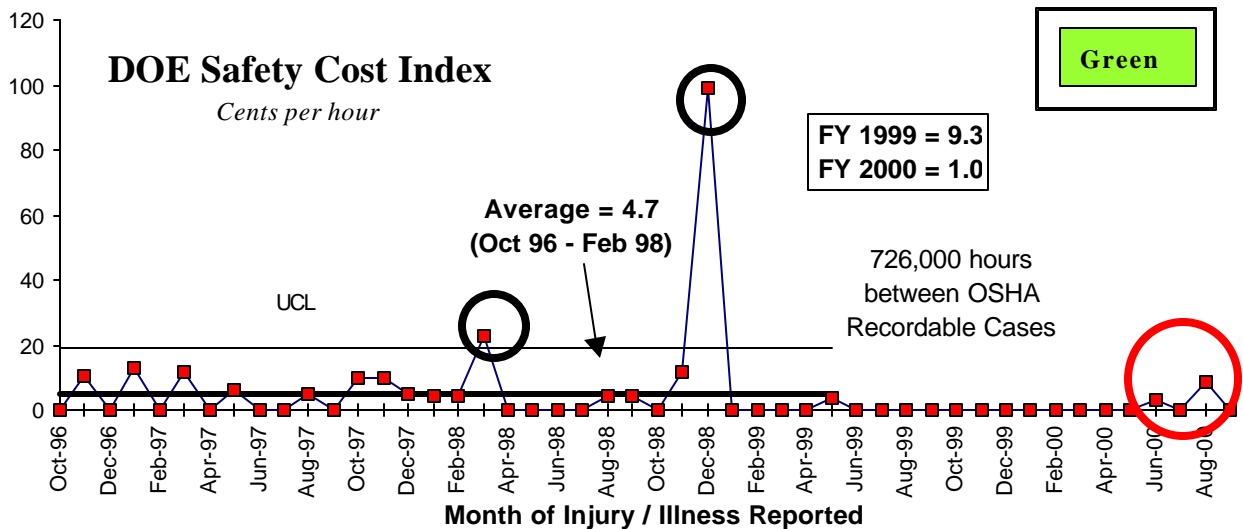
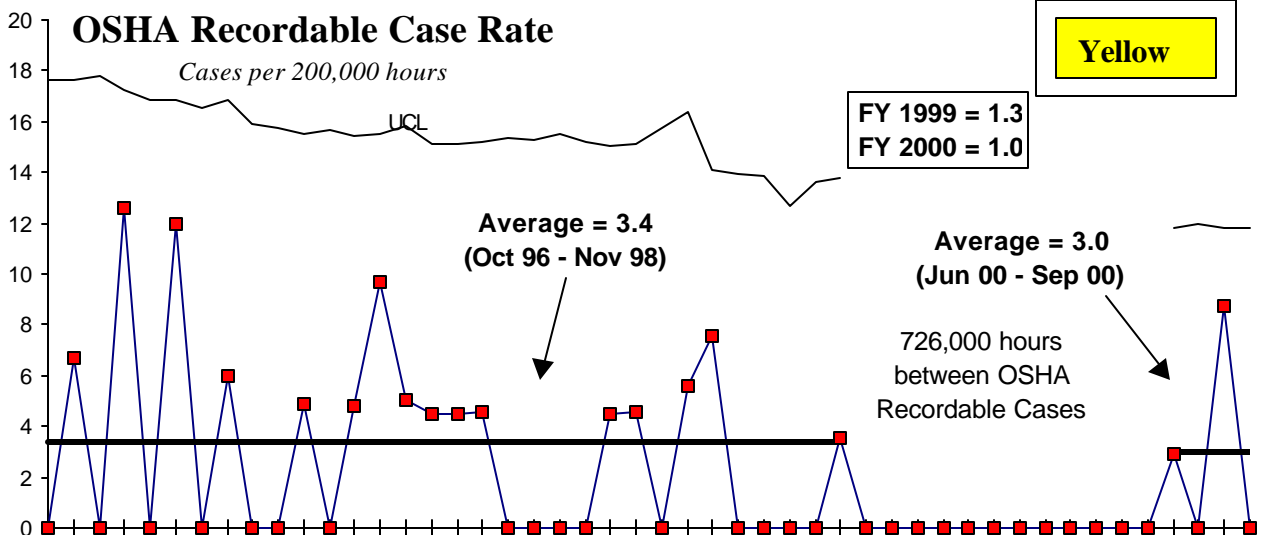
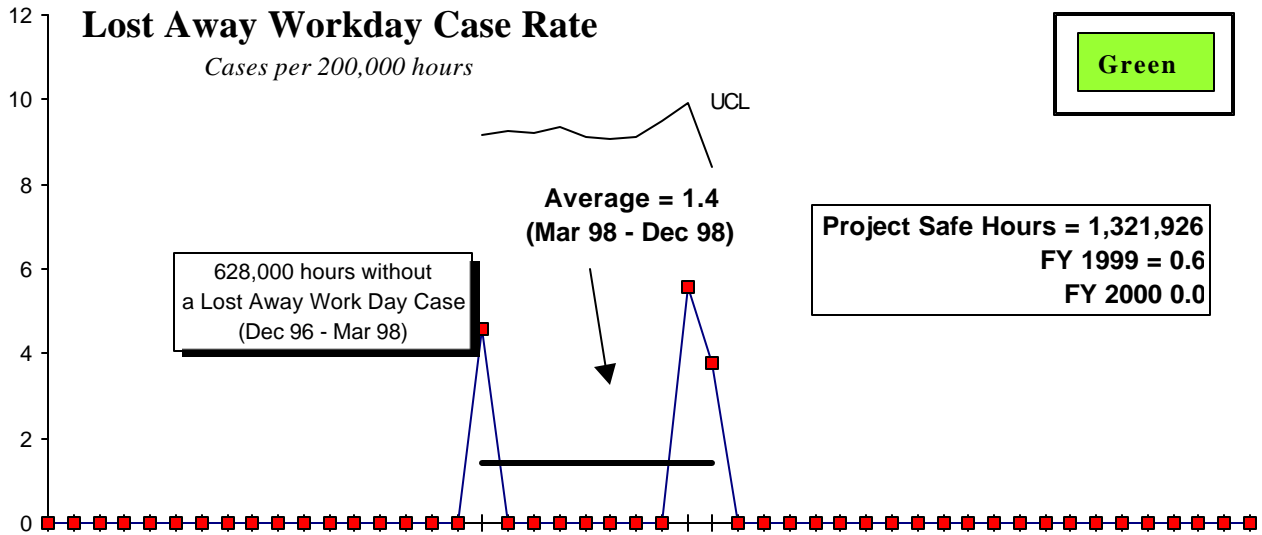
## **SAFETY**

The project has exceeded 1,321,926 hours without a Lost Away Work Day Case (21 months, since January, 1999).

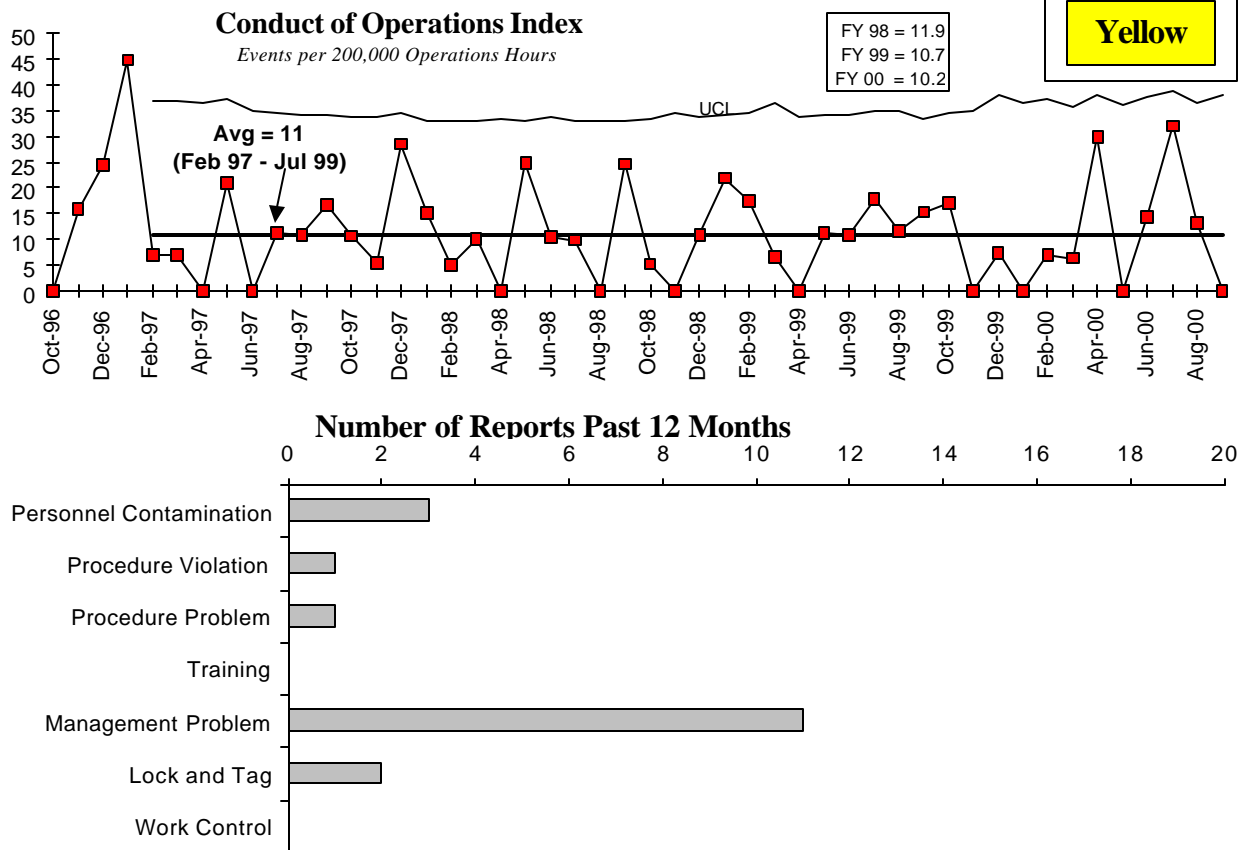
As of September, four OSHA recordable cases were recorded, breaking the run of no OSHA recordable cases since May 1999. One case was a report from June 1999 that reclassified to OSHA recordable, and three new cases in August. Although the OSHA recordable case rate is still low, the sudden arrival of four cases after such a long lull in injuries should be examined to see if it is an adverse trend.

There were also four first aid cases in September, a relatively high number for RCP. The project had 726,000 hours from August 1999 through July 2000 between OSHA Recordable Cases. The project has an overall green rating.

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## CONDUCT OF OPERATIONS / ISMS STATUS



Analyzing occurrence reports to determine contributing factors and subsequent appropriate action(s) to address the number of Management Problems reported.


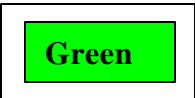
## ISMS STATUS

**Green**

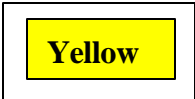
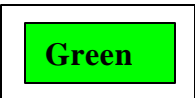
- ISMS Internal Readiness Review (IRR) completed.
- Phase I Verification successfully completed April 28, 2000.
- Declared Readiness for ISMS Phase II Verification May 2, 2000.
- ISMS Phase II Verification successfully completed July 13, 2000.
- Hazard Analysis Management Assessment completed; Lessons Learned developed.

## **BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT**

### **Breakthroughs**

- **Savings Through Alternative Disposition Strategy** - Final disposition of Unirradiated Uranium fuel elements to low-level waste burial grounds vs. packaging and transportation to Portsmouth, Ohio for interim storage will save in excess of \$1 million. 
- **300 Area Accelerated Closure Plan** - Based on the preparation of the 300 Area Accelerated Closure Plan an opportunity exists to accelerate closure of a significant portion of the 300 Area nearly four decades ahead of the current deactivation plan for an estimated savings of over \$1.0 billion. Provided basis for new “Done-in-a-Decade” closure project. 

### **Opportunities for Improvement**

- **324 Project Planning / Execution  $\frac{3}{4}$**  An emphasis on improved schedule management to ensure that critical path negative float is recovered to positive float continues. Although two steel waste disposal boxes (SWDBs) were successfully shipped in FY 2000, the Tri-Party Agreement Milestone M-89-02 (due November 30, 2000) critical path schedule now reflects a 21-day negative float for shipment of the remaining SWDBs. Higher than anticipated SWDB bottom plate doses have added additional work scope to the schedule. 
- **327 Building Conduct of Operations  $\frac{3}{4}$**  Deactivation project work activities were temporarily curtailed by the facility management to focus efforts on procedure upgrades and Conduct of Operation concerns. After a five-week effort, two months of successful deactivation work was initiated utilizing the new procedures. Senior management reviewed the daily work planning and work evolutions in the facility for areas of continued improvement. Significant facility cleanup progress was made during the last two months of the fiscal year as a result of the management action taken. 

## **UPCOMING ACTIVITIES**

- **TPA Milestone M-89-02  $\frac{3}{4}$**  Complete Removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment. Delays incurred by higher than assumed dose readings for the SWDBs, recently identified operational issues, and emerging issues; e.g., 30-ton crane repair, indicates the work to complete the milestone will not finish until beyond the November 30, 2000 milestone date. A plan for completing the remaining scope is in development. Finalization of the plan will be done in conjunction with DOE and the Department of Ecology.
- **Facility Evaluation Board Review  $\frac{3}{4}$**  Complete Facility Evaluation Board review during first quarter of FY 2000.

- **324/327 Authorization Basis ¾** Implement technical update of 324 Authorization Basis (Safety Analysis Report) by mid-December, 2000 and implement technical update of 327 Authorization Basis (Basis of Interim Operation) by March 2001.
- **Uranium Disposition ¾** Complete shipment of approximately 235 metric tons of excess uranium billets and approximately 5 metric tons of uranium dioxide to the DOE Portsmouth site in Ohio by March 31, 2001 and disposition approximately 140 metric tons of surface contaminated uranium fuel by June 30, 2001.
- **324 B Cell Cleanup ¾** Complete shipment of B Cell waste currently stored in A Cell to the 200 Areas by July 31, 2001.

### **COST PERFORMANCE (\$M):**

	<b>BCWP</b>	<b>ACWP</b>	<b>VARIANCE</b>
<b>River Corridor Project</b>	\$60.5	\$51.9	\$8.6

The \$8.6 million (14 percent) favorable cost variance is primarily from underruns in min safe 324 and 327 budgets and the Fluor Project Management Team re-structuring. Further information at the PBS level can be found in the following Cost Variance Analysis details.

### **SCHEDULE PERFORMANCE (\$M):**

	<b>BCWP</b>	<b>BCWS</b>	<b>VARIANCE</b>
<b>River Corridor Project</b>	\$60.5	\$58.1	\$2.4

The \$2.4 million (4 percent) favorable schedule variance is within the established threshold. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

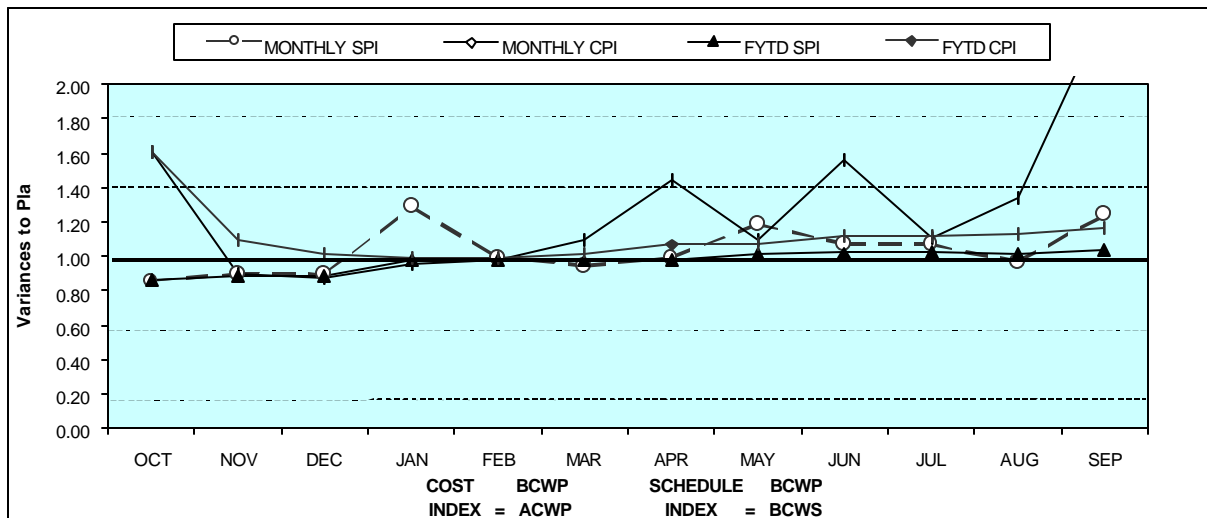


## FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

		FYTD							
	Bv PBS	BCWS	BCWP	ACWP	SV	%	CV	%	
PBS TP01 WBS 1.4.1	B-Plant	\$ 460	460	\$ 575	\$ 0	0%	\$ (115)	0%	
PBS TP04 WBS 1.4.4	300 Area/ Special Nuclear Materials	\$ 3,278	\$ 3,252	\$ 2,876	\$ (26)	-1%	\$ 376	12%	
PBS TP12 WBS 1.4.6	Transition Program Management	\$ 16,708	\$ 16,707	\$ 13,065	\$ (2)	0%	\$ 3,642	22%	
PBS TP10 WBS 1.4.8	Accelerated Deactivation	\$ 2,123	\$ 2,123	\$ 2,023	\$ (0)	0%	\$ 100	5%	
PBS TP08 WBS 1.4.10	324/327 Facility Transition	\$ 34,798	\$ 37,249	\$ 32,804	\$ 2,451	7%	\$ 4,445	12%	
PBS TP14 WBS 1.4.11	Hanford Surplus Facility Program (300Area Revitalization)	\$ 708	\$ 696	\$ 543	\$ (12)	-2%	\$ 153	22%	
Total		\$ 58,076	\$ 60,486	\$ 51,886	\$ 2,411	4%	\$ 8,600	14%	

Notes: RL-Directed costs (steam and laundry) are included in the PEM BCWS. Transition Project Management includes NMS portion of TP12.  
310 TEDF/340 Facility performance data is reported under PBS WM05 (Waste Management).

## COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.86	0.90	0.89	1.29	1.00	0.94	0.99	1.19	1.07	1.07	0.97	1.24
MONTHLY CPI	1.60	0.90	0.87	0.96	0.98	1.10	1.44	1.09	1.56	1.11	1.34	2.42
FYTD SPI	0.86	0.88	0.89	0.98	0.98	0.97	0.98	1.01	1.02	1.02	1.02	1.04
FYTD CPI	1.60	1.10	1.04	0.99	0.99	1.01	1.07	1.07	1.11	1.11	1.13	1.17
MONTHLY BCWS	\$3,649	\$5,158	\$4,089	\$3,855	\$4,290	\$5,980	\$5,433	\$6,651	\$5,259	\$4,304	\$5,736	\$5,838
MONTHLY BCWP	\$3,131	\$4,646	\$3,654	\$4,073	\$4,270	\$5,635	\$5,308	\$7,894	\$5,644	\$4,601	\$5,545	\$7,261
MONTHLY ACWP	\$1,954	\$5,141	\$4,195	\$5,206	\$4,357	\$5,135	\$3,750	\$7,221	\$3,626	\$4,161	\$4,136	\$3,005
FYTD BCWS	\$3,649	\$8,807	\$12,896	\$16,751	\$21,041	\$27,021	\$32,454	\$39,105	\$44,364	\$48,668	\$54,404	\$58,076
FYTD BCWP	\$3,131	\$7,777	\$11,431	\$16,404	\$20,674	\$26,309	\$31,707	\$39,601	\$45,245	\$49,846	\$55,391	\$60,486
FYTD ACWP	\$1,954	\$7,095	\$11,290	\$16,406	\$20,853	\$25,988	\$29,738	\$36,958	\$40,584	\$44,745	\$48,880	\$51,886

NOTE: September Monthly CPI reflects approved BCR, which transferred 300 Area Closure Plan from PBS TP14 to PBS OT01.

## **COST VARIANCE ANALYSIS: (+ \$8.6M)**

### **WBS/PBS**

### **Title**

#### **1.4.4/TP04**

#### **300 Area SNM**

**Description and Cause:** The favorable cost variance is primarily due to lower than planned S&M costs due to personnel working on other priority work related to Uranium Disposition. In addition, a favorable passback contributed to the variance.

**Impact:** None.

**Corrective Action:** Any underruns in funding were utilized to support super stretch activities and emerging work scope.

#### **1.4.10/TP08**

#### **324/327 Facility Transition**

**Description and Cause:** The favorable cost variance is from underruns in min safe 324 and 327 budgets and through work scope deletions and efficiencies.

**Impact:** None. Out year work scope was completed ahead of schedule.

**Corrective Action:** None.

#### **1.4.6/TP12**

#### **Transition Project Management**

**Description and Cause:** The favorable cost variance is primarily due to the Fluor Project Management Team re-structuring, which has mapped personnel from the sub-project to other sub-projects (i.e. Nuclear Material Stabilization), resulting in underruns in labor and contractor support.

**Impact:** None.

**Corrective Action:** None.

#### **1.4.11/TP14**

#### **HSFP 300 Area Revitalization**

**Description and Cause:** The favorable cost variance is primarily due to the receipt of favorable passbacks.

**Impact:** No impact.

**Corrective Action:** Any underruns in funding were utilized to support super stretch activities and emerging work scope.

All other PBS variances are within established thresholds.

## **SCHEDULE VARIANCE ANALYSIS: (\$2.4M)**

All PBS variances are within established thresholds.

## FUNDS MANAGEMENT

### FUNDS VS SPENDING FORECAST (\$000)

### FY TO DATE THROUGH SEPTEMBER 2000

### (FLUOR HANFORD, INC. ONLY)

	Project Completion *			Post 2006 *			Line Items *		
	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance
<b>The River</b>									
1.4 <b>River Corridor</b>									
TP01,TP04,TP08,TP10,TP12,TP14,WM05	46,198	44,404	1,794	5,168	4,323	845			
<b>Line Item</b>							279	154	125
<b>Total River Corridor Operating</b>	\$ 46,198	\$ 44,404	\$ 1,794	\$ 5,168	\$ 4,323	\$ 845			
<b>Total River Corridor Line Item</b>							\$ 279	\$ 154	\$ 125

\* Control Point

This reflects FH Project structure, which divides certain PBS's between projects (WM05 – WM and RCP, TP12—RCP and NMS). Consequently, these figures will differ from others reported elsewhere in this report (as generated in the PEM system).

## ISSUES

### Technical Issues

**Issue:** 324 Building — Hot spots on the bottom of Steel Waste Disposal Boxes (SWDBs) loaded with Rectangular Grout Containers are more radioactive than the current Central Waste Complex (CWC) acceptance criteria of one rem per hour.

**Impacts:** Shipment schedule/in-cell work schedule has been delayed.

**Corrective Action:** Pursuing several actions:

- CWC evaluating an authorization basis change to allow increased dose rates. This may require shielding provided by 324 Building at CWC.
- 324 Building evaluating SWDB loading to optimize sequence of individual items to minimize dose rates.
- 324 Building staff evaluating “short loading” SWDBs to limit dose rates. This will require purchase of additional SWDBs.

### DOE/Regulator/External Issues

**Issue:** Approval by DOE-HQ of the Unirradiated Uranium (UU) billet Safety Analysis Report for Packaging (SARP), Revision K, was requested by August 15, 2000, in order to make shipments during FY 2000.

**Impacts:** DOE-HQ has approved Revision K of the uranium billet Safety Analysis Report for Packaging (SARP) with a Certificate of Compliance (COC) that allows shipment of only 3 billet boxes per trailer instead of the 5 boxes per trailer that was analyzed in the revision. Using this COC will increase the billet transportation cost by approximately \$200K.

**Corrective Action:** DOE-HQ has been informed of the impact, and a COC allowing five billet boxes per trailer is expected to be issued prior to shipment of the billets.

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**Issue:** An opportunity exists for transfer of PNNL facilities into TP-14, pending resolution of the current DOE-HQ guidance to EM (pipeline suspension). PNNL has funds for FY 2001/2002 Surveillance and Maintenance (S&M) identified for transfer to FH, but these funds may no longer be available when the suspension ends.

**Impacts:** Efficiencies realized through combining these facilities into TP-14 may be jeopardized.

**Corrective Action:** PNNL has drafted a Memorandum of Agreement (MOA) to define a path forward and mechanism for doing business while FH performs necessary assessments to estimate surveillance and maintenance costs for the buildings that are being considered for transfer. Initial response received from internal review of this MOA is favorable. FH is continuing to gather information regarding out-year funding sources.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

(\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	S C H	T E C H	DATE TO CCR	CCB APR'VD	RL APR'VD	CURRENT STATUS
FSP-00-002	11/2/99	Mark-42 Project Completion	\$0		X	04/05/00			Add'l funding req'd
FSP-2000-068	7/20/00	224-T Characterization	\$180		X	N/A	N/A	N/A	Cancelled
FSP-2000-072	7/27/00	MYWP Submittal (Phase I)	\$0	X	X	08/25/00		08/31/00	Pending RL Approval
FSP-2000-075	8/3/00	Uranium Disposition Project	\$400		X	09/13/00		09/13/00	Approved
FSP-2000-077	8/8/00	Install Back-Flow Prevention	\$0		X	08/29/00		N/A	Withdrawn
FSP-2000-080	8/15/00	Defer 324 Building Scope	-\$487	X	X	08/28/00		09/11/00	Approved
FSP-2000-081	8/15/00	Add Award Fee BCWS for Stretch Goal Workslope	\$450			09/05/00		09/11/00	Approved
FSP-2000-082	8/16/00	Delete 324 Building Scope	-\$115	X	X	08/28/00		09/11/00	Approved
FSP-2000-083	8/30/00	Delete 300 Area ACP Development from TP14	-\$2,170			09/05/00		09/11/00	Approved
FSP-2000-084	8/31/00	Transfer 209E facility	\$0		X	09/14/00		09/14/00	Pending RL Approval
FH-2001-001	9/12/00	Base Ops Reduction for PHMC Projects	-\$3,263		X				Draft Prepared
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	-\$413						Draft Prepared
FH-2001-003	9/25/00	FY2001 Addition of High Priority Workslope	\$14,951		X				Draft Prepared
<b>ADVANCE WORK AUTHORIZATIONS</b>									
AWA	10/2/00	FY01 Uranium Disposition Acti	\$371		X	10/3/00			

## MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	1	0	0	0	0	0	0	1
DOE-HQ	0	0	0	0	0	0	0	0
RL	2	1	0	1	0	0	0	4
Total Project	3	1	0	1	0	0	0	5

Only TPA/EA milestones and all FY 2000 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY 2000 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2001 TPA/EA milestones.

FY 2001 Tri-Party Agreement / EA Milestones		
<b>M-92-13 (TRP-00-902)</b>	<b>“Submit 300 Area SCW Project Management Plan to Ecology Pursuant to Agreement Action Plan Section 11.5,” due 9/29/00</b>	<ul style="list-style-type: none"> <li>Completed 6 months early (3/28/00).</li> </ul>
<b>M-92-14 (TRP-02-901)</b>	<b>“Complete Removal of Phase I 300 Area Special Case Waste and Materials,” due 9/30/02</b>	<ul style="list-style-type: none"> <li>Completed 30 months early (03/28/00) pending acceptance of the plan by Ecology.</li> </ul>
DNFSB Commitments		
	Nothing to report at this time.	

## MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Baseline Milestone Title</u>	<u>Forecast Date</u>
<u>Date</u>			

### OVERDUE – 1

**TRP-99-933 RL** Containerize Dispersible Under 2A Rack 04/30/00 11/24/00  
**1.4.10**

**Cause:** It has been determined it is more efficient to complete dispersible collection once size reduction of miscellaneous items is completed.

**Impact:** No impact. This milestone will complete with M-89-02.

**Corrective Action:** No corrective action is required.

### FORECAST LATE – 0

FY 2001 Tri-Party Agreement / EA Milestones		
<b>M-89-02 (TRP-99-901),</b>	<b>“Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B Cell Mixed Waste (MW) and Equipment,”</b>	<b>Due 11/30/00 - Work towards completion of M-89-02 is 21 days behind schedule.</b> <span style="border: 1px solid black; padding: 2px; color: white; background-color: red; font-weight: bold;">Red</span>
DNFSB Commitments		
	Nothing to report.	

## PERFORMANCE OBJECTIVES

Green

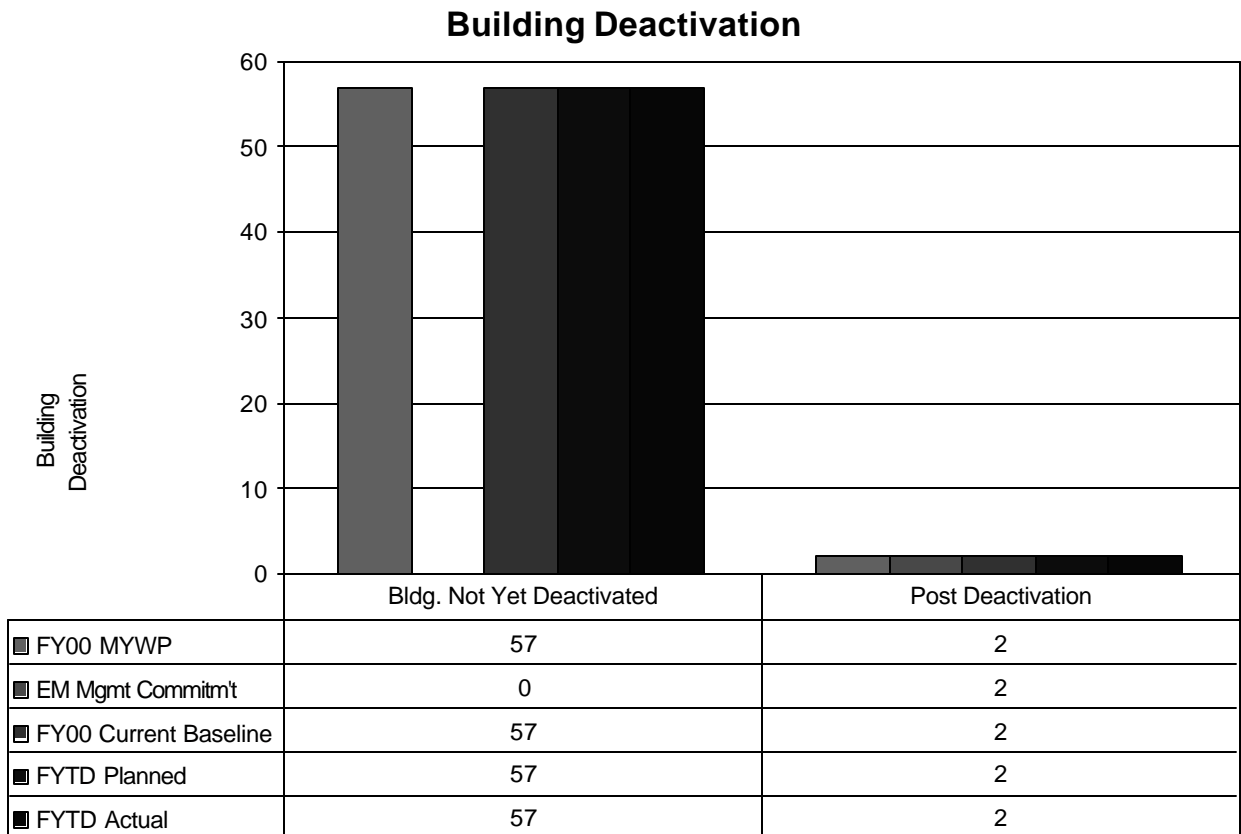
Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	FDH-RC-2 Accelerate 324/327 Deactivation.	Current Life Cycle Schedule Variance 1.14% and Life Cycle Cost Variance 1.9%. Total float is at 72 days. RCP believes that PI RC-2 was accomplished.
	FDH-RC-2SS Continue Acceleration of 324/327 Deactivation – Complete 327 Facility accelerated deactivation activities by September 2000.	Completed shipment of 103 legacy buckets, 474.7 grams of fissile material, 32.5 m <sup>3</sup> of bulk waste, 8 fuel pins, as well as cleanout of H Cell. This accelerated workscope accomplishes ~80% of the expectations for this super-stretch PI.
	FDH-RC-3SS Disposition Uranium Complete: disposition of ~1865 Metric Tons (MT) of Hanford Uranium by September 2000.	Unrecoverable – RL directed the shipment of UO <sub>3</sub> and billets with RL identified funds. (Note: 667 MTU's of UO <sub>3</sub> was shipped to the DOE Portsmouth site in Ohio.)
	FDH-RC-5SS Accelerate 300 Area Closure Project.	Plan issued June 30, 2000. Feedback received in DOE Executive Evaluation Report is positive. RCP believes that PI RC-5SS was accomplished.
	FDH-RC-5SS-2 Accelerate Cleanup of zone 4 of 300 Area.	Unrecoverable – No funds identified to support completion of physical work.
Multiple	Comprehensive performance	All baseline work projected to be complete per PI requirements. Additionally, NFDI performance for the year has met or exceeded the Comprehensive PI criteria.

## KEY INTEGRATION ACTIVITIES

- National Facility Deactivation Initiative (NFDI) Support to DOE Complex** — In FY 2000 implementation of NFDI DOE-complex objectives was completed. Key accomplishments included a deactivation plan for Savannah River Site's F Canyon; evaluation of buildings for transfer into DOE-EM at Oak Ridge, Pantex, and Hanford; stabilization assistance for Brookhaven's High Flux Beam Reactor; and deactivation assistance for facilities at INEEL, Nevada Test Site and Hanford's 300 Area.

- **324 SNF Project Savings** — In FY 2000 the River Corridor Project (RCP) 324 Building B Cell project, along with the Spent Nuclear Fuel Project (SNF), developed an alternative plan for the fuel removal activity. Agreement to use a longer inner canister for the fuel permits greater end shielding and allows manual welding and testing in the Cask Handling Area (CHA), rather than the more expensive remote effort in B Cell. The Programmatic Agreement, which outlines the responsibilities and general items for this fuel transfer, was approved by both RCP and SNF on October 6, 2000. The 200 Area Interim Storage Area Acceptance Criteria (HNF-4894) is undergoing final review and comment by RCP. Comments will be forwarded to SNF and the revised document is expected about November 30, 2000.
- **EM-50 Support** — With support from EM-50, AEA Technology has completed two draft reports in FY 2000 which support future RCP deactivation tasks: (1) *Option Study for Inspection, Sampling and Remediation for Tank T-105 in the HLW Vault in Building at Hanford*; and (2) *Options Study for B Cell HVAC Duct Remediation*. Final reports should be issued within the next month. Other topics proposed by RCP for 2001 funding are:
  - Demonstration and Deployment of the AEA Artisan-100 Arm for Hot Cell Deactivation
  - Options Study on Intact Removal and Disposal of 327 Facility Hot Cells
  - Dry Decontamination of 327 Hot Cells
  - 340 Vault Tank Heel RemovalDOE-HQ is in the process of prioritizing all projects suggested for assignment to AEA Technology. RCP has received preliminary indications that the funding/support to the Tank T-105 and HVAC Duct Remediation tasks will be supported in FY 2001.
- **New Hanford-Rocky Flats-Savannah River Joint Deactivation Proposal** — Through involvement with NFDI, Hanford, Rocky Flats, and Savannah River completed and submitted in FY 2000, a joint proposal focused on demonstration and deployment of large equipment size reduction systems.
- **Participation in West Valley Demonstration Project** — In FY 2000 RCP issued a letter of support to DOE-RL to participate as a "non-host deployment site" in a proposal led by PNNL Technology Development and West Valley. The West Valley (NY) Demonstration Project is deactivating hot cell facilities with similar decontamination and decommissioning challenges to RCP facilities. The project would fund FH on an Integrated Contractor Team (ICT). The ICT will influence the identification and selection of technologies. Based on successful demonstration at West Valley, FH will consider the best technologies for use at RCP. Nine proposals from throughout the DOE-Complex were submitted in response to EM-50's Large Scale Demonstration and Deployment Program call for proposals, with FH involvement in three of the nine.

## BUILDING DEACTIVATION



**Buildings Not Yet Deactivated:** Current approved budget does not fund building deactivation in the 300 area. Therefore, plans for deactivation have been deferred to FY2002.

**Post Deactivation:** These are two storage building to be turned over to BHI when the 324/327 Transition Project is completed in FY 2007.